CONTENTS OF VOLUME THE THIRTY-SEVENTH.

	PAGE
Ventilation of Ships. By Captain GEORGE S. MACILWAINE, R.N. (ret.), Travelling Inspector, Board of Agriculture	1
Names of Members who joined the Institution between the 26th October and the 31st December, 1892	19
Notes on Infantry Tactics. By Lieutenant-General Sir W. J. WILLIAMS, K.C.B., R.A.	23
An Old Log. By FRANCIS H. MILLER, Esq., Superintendent, Royal Victoria Yard, Deptford	29
The Army and Navy of Japan. By PIERRE LEHAUTCOURT. (Translated from "L'Armée et la Marine Japonaises," by Major G. F. HENDERSON, York and Lanc. Regt., Staff College)	41
Recent Progress in Marine Machinery. By NABOR SOLIANI. (Translated from the "Rivista Marittima," by T. J. HADDY, R.N.)	67
Cavalry Divisions and Divisional Cavalry. By "A GENERAL OF CAVALRY"	79
An Improved Tente d'Abri. By Major MALET, Northumberland Fusiliers.	83
Notices of Books	87
Editor's Preface	89
The System of Mounting and Placing Guns on board Ships of the Royal Navy. By G. O. ARNOLD-FORSTER, Esq., M.P.	91
Foreign War Offices. By Capt. C. E. CALLWELL, R.A.	113
Brief Account of the Return March to India of the Army in Afghanistan under General Sir D. Stewart, G.C.B., &c., in 1880. By Lieutenant-Colonel W. J. BOYES, late D.A.A.G., N. Afghanistan Field Force	125
The Turkish Janissaries. By Major-General F. H. TYRRELL, Madras Army	133
France and her Marine (Mercantile and War). By Contre-Amiral RÉVEILLÈRE. (Translated from the "Marine Française," by Commr. H. GARBETT, R.N.)	149
Recent Progress in Marine Machinery. By NABOR SOLIANI—*continued*	163
A Spanish View of the Spanish Navy. (Translated from the "Correo Gallego," by Major T. F. D. BRIDGE, R.M.L.I.)	173
Moltke's Tactical Exercises, 1858–82. By Capt. F. N. MAUDE, (late) R.E.	175
Field-Firing Operations of a Mixed Force in Switzerland, in connection with the Defence of the St. Gotthard. (Translated from the "Revue Militaire Suisse," by Capt. E. AGAR, R.E.)	197
Naval and Military Notes	201
Contents of Foreign Journals, &c., for January	209
Notices of Books, &c.	210
Electric Balloon Signalling. By ERIC STUART BRUCE, M.A. Oxon.	213
The Tactical Employment of Engineer Field Companies in combination with other Arms. By Captain G. K. SCOTT-MONCRIEFF, R.E.	229

PAGE

The Different Systems of Signalling in the Field. By Colonel F. G. KEYSER, C.B., Inspector of Signalling 245

A Suggestion regarding Transfer to the Reserve. By Lieutenant E. E. NORRIS, R.A. 269

The Buonaccorsi Automobile Torpedo. (Translated from the "Mittheilungen aus dem Gebiete des Seewesens," by T. J. HADDY, R.N.) 271

Bohmayer's Electric Bell. (Translated from the "Mittheilungen aus dem Gebiete des Seewesens," by T. J. HADDY, R.N.) 277

Electrical Transmission and Indicators for the Movements of the Tiller. By V. MORENO. (Translated from the "Rivista Marittima," by T. J. HADDY, R.N.) 279

The German "Field Artillery Exercise," 1892. 283

The Magazine Rifle of 6·5 mm. (0·2569 in.) Calibre, Mannlicher System. By Captain J. FRAENKEL. (Translated from the "Revue d'Artillerie," by Captain F. L. NATHAN, R.A.) 291

Naval and Military Notes 305

Contents of Foreign Journals, &c., for February 324

Notices of Books, &c. 326

Military Prize Essay. "The Military Organization best adapted to Imperial Needs." By Lieutenant-Colonel J. FARQUHARSON, C.B., R.E. 329

A Scheme for establishing a Royal Army Society for each County and Great City, in order to improve the Status of the British Soldier on his Return to Civil Life. By Commander WALLACE B. MCHARDY, R.N., Chief Constable of Lanarkshire 361

Recent Progress in Marine Machinery. By NABOR SOLIANI—*continued* ... 387

Engine-Room Telegraph by Schuckert and Co., Nürnberg. (Translated from the "Mittheilungen aus dem Gebiete des Seewesens" by T. J. HADDY, R.N.) 397

England's Position in the Mediterranean. (Translated from the "Deutsche Heeres-Zeitung") 401

French Small-Arm Smokeless Powder. (Extracted from M. POUTEAUX's work, "La Poudre sans Fumée, &c.") 407

Naval and Military Notes 409

Contents of Foreign Journals, &c., for March 427

Notices of Books, &c. 429

List of Army Regulations, &c., in force on 1st January, 1893 436

Names of Members who joined the Institution between the 1st January and the 31st March, 1893 441

Military Essay (Honourably Mentioned). "The Military Organization best adapted to Imperial Needs." By Major J. ADYE, R.A. 443

Modern Warfare as affecting the Mercantile Marine of Great Britain. By Lieutenant W. C. CRUTCHLEY, R.N.R. 491

Our Swordsmanship. By Captain A. HUTTON, late King's Dragoon Guards. 513

The Contemporary Navies of the European Powers: their Elements of Power, Guns, and Armour. (Extracts from an Address by Lieutenant-General PESTITCH) 533

The Battle-ships of England. (Extracts from an Article in the "Revue Maritime et Coloniale") 539

The Russian Official Report on the Ochta Competition 543

PAGE

Experimental Firing with 6-cm. (2·36-in.) Quick-Firing Field Guns at the Krupp Works in Germany. (Translated from the "Militär-Wochenblatt") 545

Naval and Military Notes 561

Contents of Foreign Journals, &c., for April 573

Notices of Books, &c. 574

Military Essay (Honourably Mentioned). "The Military Organization best adapted to Imperial Needs." By Major H. W. PEARSE 579

The Art of Marching. By Colonel E. T. H. HUTTON, A.D.C. 621

Volunteer Transport. By Colonel J. S. CAVE 655

Cruisers, their Rôle and the Conditions which they should satisfy. By Vice-Amiral CAVELIER DE CUVERVILLE. (Extract) 677

Recent Progress in Marine Machinery. By NABOR SOLIANI—*continued* ... 680

The Russian Naval Manœuvres of 1892. (From the "Marine Rundschau") 686

Naval and Military Notes 693

Contents of Foreign Journals for May 705

Notices of Books, &c. 707

The Laying of the Memorial Stone of the New Wing by H.R.H. The PRINCE OF WALES, K.G. 711

Military Essay (Honourably Mentioned). "The Military Organization best adapted to Imperial Needs." By Colonel J. DUNCAN, A.Q.M.G. 713

The Best Type of Field Gun for the British Service. By Captain J. HEADLAM, R.A. 735

The Mobilization of the Volunteers. By Captain H. D. SICHEL 767

The Battle-ships of England—*continued* 799

A Foreign Notice of Mr. Williams' "The Steam Navy of England" 807

Naval and Military Notes 811

Contents of Foreign Journals for June 823

Notices of Books, &c. 824

Names of Members who joined the Institution between the 1st April and the 30th June, 1893 827

Universal Compulsory Service for the United Kingdom. By Major-General F. H. TYRRELL 829

The Photography of Flying Bullets by the Light of the Electric Spark. By C. V. BOYS, Esq., F.R.S. 855

How best to secure Continuity in the Effective Service of Modern Ships of War for Successive Commissions. By HAREY WILLIAMS, Esq., R.N. . 875

An XVIIIth Century Thermopylæ. By Lieutenant J. E. CLAUSON, R.E. . 891

The Submerged Discharge for Whitehead Torpedoes. By Captain G. ASTUTO 903

The Submerged Discharge of Automobile Torpedoes. By J. HEINZ. (Extract) 910

The German Instructions for Pioneering Duties of Cavalry 915

Naval and Military Notes 917

Contents of Foreign Journals for July 928

Notices of Books, &c. 930

List of Books supplied to H.M. Ships. (Ship's Library, for Officers only.) .. 934

PAGE

The Handling of Masses of Artillery. By Major E. S. May, R.A. 937

The Banqueting House, Whitehall. By C. A. Hereshoff Bartlett, Esq., LL.B. 967

The Phonograph and its Application to Military Purposes. By Lieutenant-Colonel G. V. Fosbery, V.C. 989

Recent Progress in Marine Machinery. By Nabor Soliani—*continued* .. 1001

The German Instructions for Field Fortifications, 1893. (From the "Militär-Wochenblatt") 1010

Naval and Military Notes 1015

Contents of Foreign Journals for August 1027

Notices of Books, &c. 1028

List of Lady Stall-holders and Assistants at the Bazaar in aid of the Building Fund.

Dress and Equipment, with Practical Illustrations. By Colonel H. M. Bengough, C.B. 1033

Coal Consumption of Ships-of-War. By W. H. Riley, Esq., R.N., Staff Engineer 1069

Mobilization for Home Defence. By Major F. G. Stone, R.A., Brigade Major S.E. District 1089

The French Naval Manœuvres of 1893. Prepared from the special correspondence of the "Temps" and from other sources. By Commander H. Garbett, R.N. 1119

Naval and Military Notes 1143

Contents of Foreign Journals for September 1155

Notices of Books, &c. 1157

Names of Members who joined the Institution between the 1st July and the 30th September, 1893 1159

Recent Naval Literature. By Professor J. K. Laughton, M.A. 1161

Coast Artillery Practice. By Colonel J. B. Richardson, R.A. 1183

Tactical Deductions from the Recent Skeleton Exercises near Reading. By Lieut.-Colonel W. W. M. Smith, R.A.; Major E. Satterthwaite, 2nd V.B. R.W. Kent Regt.; and Colonel C. H. Coles, 1st Lond. Vol. Art. 1205

The Italian Naval Manœuvres of 1893. Compiled by Commander H. Garbett, R.N.; with an account of Torpedo Exercises at Maddalena, contributed by Staff Engineer T. J. Haddy, R.N. 1243

The New German Army Bill 1255

Naval and Military Notes 1261

Contents of Foreign Journals for October 1272

Notices of Books, &c. 1274

Discussion on the Military Prize Essay, 1893. ("The Military Organization best adapted to Imperial Needs," by Lieut.-Colonel J. Farquharson, C.B., R.E.) 1277

Proposed Mariner's Compass Card marked in Degrees only. By Lieutenant J. F. Stuart, R.N. 1299

v. Lobell's Annual Reports on the Changes and Progress in Military Matters during 1892. Compiled by Colonel H. T. Hildyard, Commandant, Staff College 1309

PAGE

The Léphay Luminous Compass 1361

The Whitehead Torpedo and its Relation to Modern Armaments and Tactics. Compiled by T. J. HADDY, R.N. 1363

Naval and Military Notes 1375

Contents of Foreign Journals for November 1388

Notices of Books, &c. 1389

Index of Subjects and Authors 1391